Solaris 5

Owner's Guide

limited lifetime consumer warranty

Directed Electronics, Inc. ("Directed") promises to the original purchaser to repair or replace with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days of the date of purchase to the address listed on the card; the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL

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This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800. Directed security systems, including this unit, are deterrents against possible theft. Directed is not offering a guarantee or insurance against vandalism, damage or theft of the automobile, its parts or contents; and hereby expressly disclaims any liability whatsoever, including without limitation, liability for theft, damage and/or vandalism. Directed does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this security system.

Make sure you have all of the following information from your dealer:

A clear copy of the sales receipt, showing the following:

- Date of purchase
- Your full name and address
- Authorized dealer's company name and address
- Type of alarm installed
- Year, make, model and color of the automobile
- Automobile license number
- Vehicle identification number
- All security options installed on automobile
- Installation receipts

important! *Please note that this manual was intended for US consumers and therefore includes American phrases or words.*

trademarks and copyrights

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what is included

- Control module and harness
- IntelliStart module and harness
- Two five-button transmitters
- Presentation envelope and quick reference card
- Two window decal's
- XHF antenna/receiver with harness
- Pre-wired blue status LED
- PlainView 2 Valet switch
- 518C neo-siren
- One remote adjustable dual zone shock sensor with harness

important information

Congratulations on the purchase of your state-of-the-art vehicle security system. It has been designed to provide years of trouble-free operation. This system must be installed by an authorized dealer. Installation of this product by anyone other than an authorized dealer voids the warranty. As verification of authorization, all authorized dealers are provided with preprinted dealer certificates.

In order to maximize the use of this system, please review this owner's guide carefully prior to using your system. You can print additional or replacement copies of this owner's guide by accessing the Clifford website at www.clifford.com.

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system maintenance

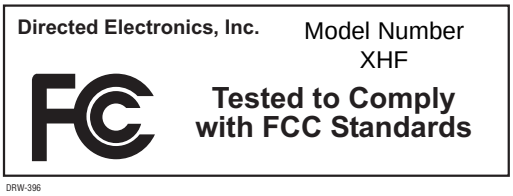
The system requires no specific maintenance. Your transmitter is powered by a miniature 3V lithium battery that will last approximately one year under normal use. When the battery weakens, operating range will be reduced and the system will provide a low battery warning chirp indication when disarming.

your warranty

Your warranty registration must be completely filled out and returned within 10 days of purchase. Your product warranty will not be validated if your warranty registration is not returned. Make sure you receive the warranty registration from your dealer. It is also necessary to keep your proof of purchase, which reflects that the product was installed by an authorized dealer.

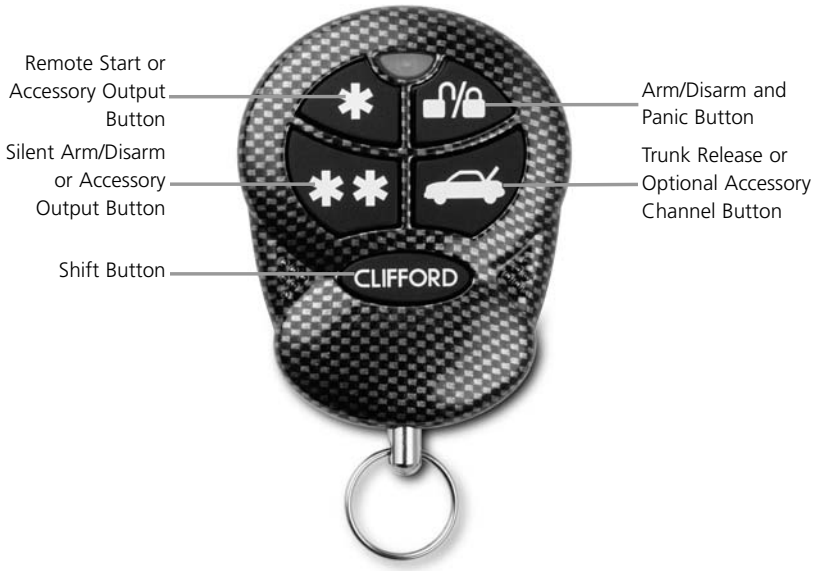
fcc/id notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.



DRW-396

transmitter configurations


Remote Start or Accessory Output Button
Silent Arm/Disarm or Accessory Output Button
Shift Button
Arm/Disarm and Panic Button
Trunk Release or Optional Accessory Channel Button
CLIFFORD

note: *This manual describes the features and accessories that are included with your system along with information about compatible Clifford accessories that are not included. For a list of included accessories, please refer to the* What Is Included *section of this manual.*

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transmitter functions

This system uses computer-based code learning to learn the transmitter buttons. This makes it possible to assign any transmitter button to any system function. The transmitter initially comes programmed with standard configuration, but may also be customized using the CliffNet Wizard PC program. The buttons in all of the instructions in this manual correspond to a standard configuration transmitter.

standard configuration

Button

The arming, disarming, and panic function are controlled by this button.

Button

The trunk release or accessory output A is controlled by this button.

Button

Silent arm and disarm is controlled by this button.

✱ Button

warning! Operation of the remote start module if the the vehicle starts in gear is contrary to its intended mode of operation. Operating the remote start system under these conditions may result in property damage or personal injury. Immediately cease the use of the unit and repair or disconnect the installed remote start module. Clifford will not be held responsible or pay for installation or reinstallation costs.

Remote start is controlled by this button.

CLIFFORD Button, then 🔓/🔒 Button

Accessory B output is controlled by these buttons.

CLIFFORD Button, then 🚗 Button

These buttons activate SmartWindows.

CLIFFORD Button, then ✱✱ Button

Accessory C output is controlled by these buttons.

CLIFFORD Button twice, then 🔓/🔒 Button

These buttons activate remote valet.

CLIFFORD Button twice, then 🚗 Button

These buttons disable the sensors.

CLIFFORD Button three times, then ✱✱ Button

These buttons adjust the dual zone shock sensor.

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using your system

The buttons used in the instructions in this manual correspond to the standard transmitter configuration. If your transmitter has been custom configured, the icons on your transmitter buttons may not correspond to the indicated functions.

arming with transmitter

You can activate, or arm, the system by pressing on your transmitter for one second. When the system arms, you will hear two short siren sounds, or chirps, and see the parking lights flash twice. The LED will begin to flash steadily. If the vehicle's power door locks have been connected to the system, the doors will lock.

While the system is armed, the LED status indicator will flash approximately once per second showing that the system is actively protecting your vehicle. If you hear more than two chirps when arming, refer to the *Diagnostics* section of this guide. These extra chirps confirm a malfunction autobypass.

arming without transmitter

The security system also can be programmed to arm itself without a transmitter (called passive arming). If the system is programmed for passive arming, it will automatically arm 30 seconds after the ignition is turned off and the system sees you leave the vehicle by opening and closing a door. The siren will chirp twice and the lights will flash twice five seconds after the last door has been closed. The system is not actu-

ally armed at that point. The system arms and the doors lock (if connected and programmed for passive locking) at 30 seconds, but the siren will not chirp. The early chirps provide you with a 25-second warning prior to arming.

> ***note:*** *If any protected entry point (a door or a switch-protected trunk or hood) is open, the system will not passively arm. Additionally, each time a protected entry is triggered during the arming countdown, the 30-second countdown starts over.*

When armed, your vehicle is protected as follows:

- The LED will flash as a visible theft deterrent.
- Light impacts will trigger the Warning Zone signal. When triggered, the siren will sound for a few seconds.
- Heavy impacts will trigger the system. The triggered sequence is 30, 60, or 90 seconds of constant siren sounding and flashing parking lights.
- If a protected entry (door, hood, or trunk) is opened, the system will immediately trigger the siren and flash the parking lights.

disarming

To disarm the system, press . You will hear a chirp and the parking lights will flash once. If the power locks are connected to the system, the doors will unlock. If the siren chirps three times when disarming, refer to the *Diagnostics* section of this guide. This is called Tamper Alert. If the siren is active when the system is disarmed you will hear two chirps but the system is not disarmed. (Refer to the *Remote Siren Silencing* section of this guide.) However, if the alarm completes the full trigger cycle when disarmed you will hear three chirps.

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disarming without a transmitter

This feature allows you to disarm the system without the transmitter should it be lost, damaged, or disabled. In order to disarm without a transmitter, you must have the vehicle's ignition key, know where the PlainView 2 Valet switch is located, and have the PIN code. Be sure to check with the installer for the location of the PlainView 2 Valet switch. Please refer to the Disarm/Valet Mode section of this guide for instructions to enter the pin code.

remote siren silencing

This system offers remote siren silencing. Remote siren silencing is a feature that makes it possible to silence and reset the system when it is triggering without disarming the system. If the system is triggered and the siren has been sounding, press on the transmitter to stop the trigger and return the unit to the armed state. This prevents you from disabling the system should you wish to silence it without visually checking the vehicle. After resetting the system, press again to disarm the system.

transmitter chirp muting

To temporarily turn off the arm or disarm chirps, use transmitter chirp muting. Simply press on the transmitter, and the confirmation chirp(s) will be eliminated for that one operation only. The parking lights will flash to confirm the arm/disarm command. If you want the arm/disarm chirps turned off permanently, please refer to the *User-Selectable Features* section of this guide.

transmitter sensor disable

To temporarily disable a sensor input, arm the system, press CLIFFORD twice and then . The lights will flash four times and all sensor warn away ones are bypassed. Press the buttons again; the lights flash four times and both warn away and full trigger sensor zones are bypassed until the system is disarmed. This can be performed anytime the system is armed.

1. Arm the system.
2. Press CLIFFORD twice and then .
3. The lights will flash four times; all warn away zones are now bypassed.
4. Transmit the sensor bypass channel again.
5. The lights will flash four more times; the sensor warn away and full trigger zones are now bypassed.
6. The sensor zones will reset when disarmed.

intellistart and smartwindows sensor bypass

When the system sees a command to start the vehicle via the Intellistart, it bypasses sensors and will continue to bypass these sensors until the remote start shuts down.

When the system sees a SmartWindows command for up or down operation, the unit will automatically bypass all sensors until the windows complete their operation.

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auxiliary channel bypass

Alarm sensors will be bypassed while a pulsed or timed auxiliary output channel is active.

panic mode with smart door locking

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your transmitter! Just press for two seconds to enter Panic Mode. The siren will sound and the parking lights will flash for the programmed duration. If the ignition is on, the doors will lock; if the ignition is off, the doors will unlock. To stop Panic Mode at any time press on the transmitter again.

disarm/valet mode

Entering your pin code using the PlainView 2 Valet switch allows you to disarm the system or enter valet mode without using the transmitter. In valet mode, the security system will not arm, even with the transmitter, but all convenience functions (door locks, trunk release, etc.) will continue to work normally.

To disarm or enter Valet Mode:

1. Turn the ignition on.

2. Enter PIN code (factory setting is 2 - this procedure is described later in this manual).

3. After the last digit of the pin code is entered:
   a. To disarm the system: press and release .
   b. To enter valet mode: Press and hold for three seconds.

The LED status indicator will light steadily when Valet Mode has been entered.

To exit Valet Mode:

1. Turn the ignition on.

2. Enter PIN code.

3. After the last digit press for one second. The LED status indicator will turn off when valet mode has been exited.

To enter or exit Valet Mode:

To enter or exit Valet Mode, press CLIFFORD twice and then . The LED status indicator will light solid when Valet Mode is entered, or will turn off when Valet Mode is exited.

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one-time auto-arming bypass

This will bypass the auto arm feature once only.

1. With the key, turn the ignition on, then off within two seconds.
2. The siren will chirp once to confirm auto arming bypass.
3. The system will not auto arm.

> ***note:*** *The system will revert to normal auto arming when the system sees the ignition on for at least three seconds.*

During auto arming bypass the system will not roll up the windows if SmartWindows is connected, and the accessory output will not auto-activate when using the remote to arm the system.

low battery warning

When the transmitter battery is low, the system will generate a low-pitched tone when disarmed.

multiple event total recall

This will report the last eight system triggers.

1. Press and hold of the PlainView 2 Valet switch.
2. While still holding , arm and disarm the system, then release the button.
3. The LED will start to blink to indicate the most recent trigger and proceed down to the eighth trigger. If fewer than eight triggers are stored in memory, the LED will blink continuous-

ly until the system is armed/disarmed using the transmitter or the ignition is turned on. For more information, please refer to the *Table of Zones* section of this guide.

false alarm control technology (FACT II)

Your system offers FACT II, a feature that prevents annoying repetitive trigger sequences due to a faulty sensor or environmental conditions such as thunder, jackhammers, airport noise, etc.

Here's how it works: The alarm triggers three times. If the same sensor is triggering the alarm and the first and the third triggers are within 60 minutes of each other, FACT II will interpret this pattern of triggers as false alarms. After the third trigger, FACT II ignores, or bypasses, that sensor (along with any other sensors sharing the same zone) for 60 minutes.

If the bypassed sensor tries to trigger the system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that continually triggers will remain bypassed.

Doors are covered by FACT II differently; if the alarm is triggered by an open door for three full cycles, the doors will be bypassed until the trigger ceases. FACT II is programmable. See the *Programming Options* section of this guide.

> ***note:*** *Arming and disarming the system does not reset this function! The only way to reset a bypassed zone is for 60 minutes or to turn on the ignition. If testing your system, it is important to remember that the FACT II programming can cause zones to be bypassed and appear to stop working. If you wish to clear the FACT II memory, turn the ignition key on.*

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select siren sounds

To customize siren sounds, please refer to the selectable siren sounds feature in the User Selectable Features grid. Once in programming mode, press on the transmitter to begin playback of the available sounds.

Press on the PlainView 2 Valet switch while playing the desired sound to add that sound; press while playing the desired sound to delete that sound.

note: Additional tones can be accessed through the CliffNet Wizard.

diagnostics

The microprocessor at the heart of your security system is constantly monitoring all of the switches and sensors that are connected to it. It detects any faulty switches and sensors and prevents them from disabling the entire system. The microprocessor will also record and report any triggers that occurred during your absence.

arming diagnostics

If the system is armed while an input is active (door open, sensor triggering, etc.) the unit will chirp as listed on the alarm/disarm diagnostic chart (next page). This is called Bypass Notification.

The security system will ignore the input that was active when the system was armed, until the input goes away. Three seconds later the system will monitor that input normally.

1. If a door is open the siren will chirp 4 times – 5 seconds after the 2 arming chirps.
2. If a sensor is active the siren will chirp 4 times – 10 seconds after the 2 arming chirps.
3. If the hood or trunk is open, the siren will chirp 4 times upon arming.

disarming diagnostics

Extra disarm chirps are the Tamper Alert. If three chirps are heard when disarming, the system was triggered in your absence. If three chirps are heard, the LED status indicator will indicate which zone was involved when you turn the ignition on (see the *Table of Zones* section). The system will retain this information in its memory. Refer to the *Multiple Event Total Recall* section of this guide.

arm/disarm diagnostic chart

Action	Chirps	Light Flashes	Description
Arm	2	2	System armed
Arm	4	4	System armed with hood/ trunk active and bypassed (zones 5 and 6)
Arm	2 (5 sec.) 4	2 (5 sec.) 4	System armed with door active and bypassed (zone 4)
Arm	2 (10 sec.) 4	2 (10 sec.) 4	System armed with sensor active and bypassed zones 1, 3, and 8
Disarm	1	1	System disarmed
Disarm	3	3	System disarmed with tamper alert

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table of zones

The zone number is the number of LED flashes used by the system to identify a specific input. The standard input assignments are listed below, along with spaces to write in any optional sensors or switches you have had installed. If the Warning Zone response is triggered, the LED will not report it.

Zone - Number of LED Flashes	Description	Dealer-Installed Options
1	Data	Dual zone shock sensor
2	Not used	
3	Mux 1 trigger - for optional sensors	
4	Door switch trigger	
5	Instant trigger - trunk	
6	Instant trigger - hood	
7	Ignition trigger	
8	Mux 2 trigger - for optional sensors	
9	Not used	
10	Power interrupt	

anti-code grabbing (ACG)

This unit features Anti-Code Grabbing (ACG) with Random Code Encryption. This means the receiver and transmitters each use a mathematical formula called an algorithm to change their code each time the transmitter is used. This technology has been developed to increase the security of the unit. The control unit knows what the next codes should be.

high frequency

Your system transmits and receives at 433 MHz. This provides a cleaner spectrum with less interference and a more stable signal.

smart power up II

This security system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory. This means if the unit is in Valet Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all states of the system including arm, disarm, and Valet Mode.

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power saver mode

Your system will automatically enter Power Saver Mode while armed or in Valet Mode, after a period of time in which no operation has been performed. This lowers the current draw on the vehicle's battery and prevents the system from draining the battery. Power Saver Mode takes over under the following conditions:

- Power Saver when the system is armed: After the system has been armed for 48 hours, the LED will flash at half its normal rate, decreasing the system's current draw.
- Power Saver in Valet Mode: When the system enters Valet Mode the LED illuminates steadily. If the vehicle is not used (ignition is not turned on) for a period of one hour while the system is in Valet Mode, the LED will shut off. If the system remains in Valet Mode, the LED will come back on and restart the 1 hour timer the next time the ignition is turned off.

programming

cliffnet wizard installation software programming

Cliffnet Wizard provides access to all available system features and some that are not available when manually programming with the Valet switch. Cliffnet Wizard is compatible with Microsoft Windows 95/98/2000/ME/XP/NT so most programming operations can be accomplished by pointing and clicking with a mouse. This eliminates the need for programming grids and lengthy programming sequences. For a complete guide to system programming using the Cliffnet Wizard refer to the Cliffnet Wizard help menu.

manual programming instructions

Be sure to document changes by taking note of all feature changes made in programming mode.

To enter the User Selectable Features programming:

1. Ignition on - Turn the ignition to the run position or start the engine.
2. Enter PIN - Enter the factory preset PIN code 2 by pressing on the PlainView 2 Valet switch twice, then once.

> ***note:*** *If the factory preset PIN has been changed, the new PIN must be entered.*

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3. Hold/Chirp/Release - After entering the PIN code, press and hold until a chirp is heard and the LED turns on, then release the button. You have now entered the feature selection position of the User Selectable Features grid.
4. Column select - Press the same number of times as the desired column. After a pause the siren will chirp the same number of times as the selected column for confirmation.
5. Feature select - Press the same number of times as the desired feature. The siren will chirp with each press. The feature can now be changed using the remote control.
6. Feature change - Press on the transmitter. If the system chirps once, the feature has just turned off; if the system chips twice, the feature has just turned on. If the feature has more than two settings, continue pressing on the transmitter to toggle through the settings.

   You can advance to any feature in the same column by pressing within 60 seconds; to program a feature in a different column begin at step 4 within 60 seconds.

> ***note:*** *Refer to the* Feature Descriptions *sections of this guide for important notes and descriptions of the system features and programming.*

7. Exit programming - To exit programming mode turn the ignition off or wait 60 seconds without pressing the PlainView 2 Valet switch. The siren will chirp three times to indicate programming mode has been exited.

user selectable features

Then Press \ First Press	1 x	2 x	3 x
1 x *	Add new remote (autolearn)	Set PIN code (default = 2)	New remote learn arm/disarm only
2 x *	Auto (passive) arm **off/**on	Select siren sounds	New remote learn accessory A channel
3 x *	Chirps off/on/**quiet**	FACT II off/**on**	New remote learn accessory B channel
4 x *	Auto lock off/**ignition**/rpm	Remote valet off/**on**	New remote learn silent mode
5 x *	Auto unlock off/**ignition**	Entry delay **off/**on	New remote learn remote valet
6 x *	Auto (passive) arm and lock **off/**on	Reset to default (except transmitter and valet code)	New remote learn remote start*
7 x *	Siren duration **30**/60/90	Panic **on**/off	New remote learn window down/vent**
8 x *	Second unlock **off**/on	Autostart setting* (**off**/battery only/ temp only/ battery and temp)	Not used
9 x *	Not used	Not used	Clear all remotes

* This feature is only available with optional IntelliStart connected.

** This feature is only available with optional SmartWindows connected.

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user selectable features descriptions - column one

add new remote (auto learn)

Auto-learn new five-button Radar2 remote controls to the system in the standard button configuration. Once you have entered the feature, press on the transmitter until you hear a confirmation chirp. Press again until you hear two chirps indicating the new remote is learned.

auto (passive) arm - off/on

- Off: The transmitter must be used to arm the system.
- On: When the system sees the ignition turn off and the last protected entry (door, hood, or trunk) close, it will begin a 30-second countdown before arming itself. After the first five seconds, you will hear two chirps and the lights will flash. The system will arm 25 seconds later.

chirps - off/on/quiet

- Off: Chirps will not sound when arming/disarming the system.
- On: Chirps will sound when arming/disarming the system.
- Quiet: Chirps will sound when arming/disarming the system but at a lower volume than normal.

auto lock - off/ignition/rpm

- Off: The doors will not lock automatically.
- Ignition: The doors will automatically lock three seconds after the ignition is turned on unless a door is open at that time.
- Rpm: The doors will lock when the system sees the engine reach a preprogrammed RPM.

auto unlock - off/ignition

- Off: The doors will not automatically unlock when the ignition is turned off.
- Ignition: The doors will automatically unlock as soon as the ignition is turned off.

auto (passive) arm and lock - off/on

- Off: The doors will not lock when the system passively arms.
- On: The doors will lock when the system passively arms. This feature only applies when passive arming is programmed on.

siren duration - 30/60/90

- The system will sound the alarm for the programmed duration (30/60/90 seconds) during an alarm trigger or when the system is put into panic mode.

second unlock - off/on

- Off: Second unlock output is pulsed at the same time as the unlock output when the system is disarmed.
- On: Second unlock output is active when the arm/disarm button is pressed within 10 seconds of disarming the system.

> ***note:*** *The second unlock can be installed by your dealer. Please note that extra parts and labor may be required.*

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user selectable features descriptions - column two

set pin code

This feature allows the setting of the user's personal PIN code. For more information, please refer to the *PIN Programming* section of this guide.

select siren sounds

The individual sounds the siren produces during an full trigger alarm can be customized for owner recognition of an alarm trigger. For more information, please refer to the *Select Siren Sounds* section of this guide.

> ***note:*** *Sounds 7 through 15 available using CliffNet Wizard.*

fact II off/on

- Off: The alarm will respond to sensor inputs indefinitely without bypassing.
- On: The alarm will bypass for 60 minutes if a sensor is triggered three times within a one hour period.

remote valet off/on

- Off: The alarm can not be put into valet mode with the remote control.
- On: The alarm can be put into valet mode with the remote control.

entry delay off/on

- Off: There is no entry delay when armed. The system will trigger instantly when a door is opened.
- On: If the system has passively armed, it will not trigger for 15 seconds after a door is opened allowing the user to enter the vehicle and disarm the system via the PlainView 2 Valet switch.

reset to default settings

- All system settings (except PIN and remote programming) in the User Programming grid will be reset to their default factory setting as indicated in bold lettering.
- Press the arm/disarm button of the TX; the siren will chirp twice as confirmation.

panic off/on

- Off: The panic feature is not available.
- On: The panic feature is available.

auto start setting - off/battery only/temp only/battery and temp

- This feature is only available with the IntelliStart option.
- Off: The vehicle will not autostart.
- Battery: The vehicle will only autostart when the car battery gets low.
- Temperature: The vehicle will only autostart at a preset low temperature.
- Battery and temperature: The vehicle will autostart with a low car battery or low temperature.

> ***note:*** *Temperature and battery calibration and settings can be made only with the Cliffnet Wizard.*

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user selectable features descriptions - column three

The features in this column pertain to programming individual transmitter channels in custom configurations. Following is an explanation of the features.

arm/disarm only

The remote control channel programmed into this feature will arm/disarm the system only.

> ***note:*** *When programming a new remote control to custom configuration a channel must first be programmed to this feature before programming the remaining channels.*

accessory a output

The transmitter channel programmed into this feature will activate the accessory output.

accessory b output

The transmitter channel programmed into this feature will activate the accessory output.

silent mode

The transmitter channel programmed into this feature will arm/disarm the system, but the siren will not chirp.

remote valet

The transmitter channel programmed into this feature will make the system enter/exit valet mode.

remote start

- This feature is only available with IntelliStart connected.
- The transmitter channel programmed into this feature will activate or shut down the Intellistart remote start system.

window control

- This feature is only available with SmartWindows connected.
- The transmitter channel programmed into this feature will activate the vent or roll down feature of the SmartWindows system.

clear all remotes

- This feature will erase all remote codes from the system memory. This feature is convenient for erasing any transmitters that have been lost, stolen, or incorrectly programmed into the system.
- After entering this feature press any button on the transmitter; the siren will chirp to indicate that all transmitters have been erased from memory.

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pin programming

A PIN code can have one to four digits; each digit can be from 0-9.

> ***note:*** *A PIN code cannot begin with a zero.*

Programming Procedure

1. Enter the feature location in the installer programming grid.
2. Immediately press and release ▢ of the PlainView 2 Valet switch.
3. Select each digit by pressing ✱ 1-9 times, and then press ▢ to enter the number into the system. To enter a zero, press ▢ only.

   To program a PIN code of 1032:

   1. Press and release ✱ once and ▢ once. You will hear one chirp.
   3. Press and release ▢ once. You will not hear a chirp after programming a zero.
   5. Press and release ✱ three times, and then press ▢ once. You will hear three chirps.
   6. Press and release ✱ two times, and then press ▢ once. You will hear two chirps.
4. Wait for two siren chirps after a five second pause or five seconds after the last digit has been entered if using less than four digit code number.
5. Turn off the ignition; the siren will chirp three times.
6. The programming mode is now exited.

PIN Code Confirmation Procedure

Begin this procedure within 15 seconds of finishing the programming sequence or the new code will not be set.

1. Turn on the ignition.
2. Enter the new PIN code.
3. Press and hold for three seconds.
   - LED turns on: New PIN code is learned and programming is complete.
   - LED stays off: New PIN code is not learned and the system reverts to the old PIN code. Repeat the programming sequence.

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remote start

remote start features

- Remotely start your car's engine from hundreds of feet away.
- Automatically performs extensive pre-start safety checks.
- Automatic cold weather cranking for hard-start conditions.
- Activates all preset accessories such as the heater or AC.
- Monitors RPM and shuts down the engine if problems are detected.
- Clifford security system remains armed throughout.
- Automatically bypasses triggered security sensors.
- Automatically shuts down the engine if the alarm sounds.
- Auto shutdown after 30 minutes if left unattended.
- Prevents the starter from engaging if the driver turns the ignition key too far.
- ShortStop lets you remove the key and arm the alarm for a brief errand while the engine continues to idle.
- Selectable low temp autostart warm up for very cold weather.
- Selectable low battery autostart recharging.
- Extended accessory power after ignition is turned off.
- Automatic transmission compatibility.

note: this product must be installed by an authorized Directed dealer in accordance with the instructions supplied. It is intended for automobiles with a 12V battery and a gas- or diesel-powered, electronic fuel-injected engine. Your authorized Directed dealer can correct any wiring problems, and if necessary, can return any malfunctioning component to Directed Electronics for repair/replacement under the warranty terms and conditions noted in this manual.

remote start do's and don'ts

Do's

- Park in a well ventilated area if you should plan on remote starting your vehicle.
- Engage the parking brake at all times.
- Place the transmission in PARK or NEUTRAL (manual trans) before shutting the engine off.
- Preset your comfort controls according to the conditions of the vehicles interior when remote start is activated.
- Always make sure the vehicle has sufficient petrol.

Don'ts

- DON'T remote start your vehicle or engage Shortstop or Autostart modes in an enclosed area such as a garage or car port.
- DON'T allow children access to your remote control.
- DON'T engage remote start or Shortstop or Autostart modes when children or pets are present in the vehicle.
- DON'T remote start the vehicle when someone is in front or behind the vehicle.

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remote start/engine shut down

To remotely start your vehicle, press for one second.

When starting:

- The lights will flash 2 times as confirmation to start.
- The ignition and preset accessories will start and run for the programmed run time.
- The lights will stay on as a visual indicator that the engine is running.

To remotely shut off your vehicle, press the button of the remote control for 1 second. The engine will shut off and the lights will go out.

Drive vehicle after remote starting:

After your vehicle has been remotely started, you can enter and drive away without having to restart.

- Disarm the security section of your system as you normally would.
- Enter the vehicle without stepping on the brake or moving the shift lever.
- Insert your key into the ignition and turn to the run position.
- Step on the brake, the remote start will turn off and the engine will stay running.
- You are ready to drive.

shortstop mode

Shortstop mode is a convenience feature that allows the remote start to keep the engine running while you run a brief errand. In Shortstop mode, the security section of your system will operate normally should you want to activate it.

To activate shortstop mode:

- Park the vehicle, place the shifter into park, and engage the handbrake. Place the shifter into the neutral position if it is a manual transmission.
- Without pressing the brake pedal, press the button of your remote control. The lights will flash 2 times as confirmation.
- Turn the ignition off and remove the keys from the ignition switch. The engine will continue to run.
- Exit the vehicle, arm the security system and attend to your business. The engine will run for the programmed run time.

low temperature/battery start

Your remote start system can automatically start your vehicle if the interior reaches a pre-programmed low temperature setting or if the battery charge level drops too low. Both these settings can be calibrated and set using the Cliffnet Wizard. It is recommended that you have your installer calibrate and set the start time intervals if you intend to use this feature.

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To activate autostart mode:

- Arm the security section of your system.
- Transmit the Autostart command, the CLIFFORD button twice, then the ✱✱ button once. The lights will flash 2 times as confirmation of Autostart mode.
- The remote start will monitor the temperature and battery levels and start at the programmed settings and intervals.

retained accessory power

The remote start section of this system will, after turning off the ignition, keep the accessory power of the vehicle on for 5 minutes or until the vehicle door is opened. This is very convenient if you forgot to roll up windows or just want to listen to the radio.

diesel compatibility

the system will activate the engine's glow plugs for the necessary duration before starting via either a timer delay or through a direct connection to your vehicle's glow plug indicator (may require optional parts or wiring).

auto-immobilization feature

Auto-immobilization is a feature designed for maximum security; it activates the UltraSecure Immobilization circuitry automatically.

auto-immobilization sequence

1. Turn ignition off or disarm alarm.
2. After 30 seconds the systems Immobilization circuits activate and engage the starter and ignition interrupt.
3. LED blinks at ½ normal speed.

Disarming auto-immobilization

To disarm auto-immobilization when active, follow any of the sequences listed below.

- Turn ignition on and press the arm/disarm button.
- Arm the alarm and then disarm the alarm.
- Turn the ignition on and enter the system valet/PIN code.

one-time valet feature

This feature allows the system to be put in valet mode only until the next time the ignition is turned on.

ON: Valet mode will be exited every time the ignition is turned on.

OFF: Valet mode will only be exited by using the valet switch or the remote control.

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dual zone shock sensor

The digital dual zone shock sensor provides a warning trigger for lighter impacts to the vehicle as well as a full trigger alarm for heavy impacts.

adjusting the shock sensor

> ***CAUTION:*** *DO NOT strike the window glass or flat sheet metal panels that can dent easily. It is recommended that you only strike the metal pillars between the windows, they are structurally sound enough not to dent. ONLY strike the pillars using the heel of your hand, it is more than sufficient for the sensor to distinguish this as a theft attempt.*

> ***NOTE:*** *You MUST exit using the ARM/DISARM button after programming to lock in the new settings!*

Read the following instructions thoroughly for a full understanding of how to properly adjust this sensor.

1. Disarm system
2. Transmit Channel 15. (Press CLIFFORD 3 times then ** 1 time)
   - The LED will turn on and the siren will chirp 1 time.
   - Primary (full trigger) zone adjustment has now been entered.
   - Primary zone can now be adjusted.

3. Adjusting Primary Zone
    - Press to increase sensitivity.
    - Press to decrease sensitivity.
    - The sensor Primary zone can be tested at any time during adjustment by striking the vehicle which will generate 1 siren chirp each time the zone is activated.
4. Press to adjust Warn-Away zone
    - Siren chirps 1 time.
    - Warn-away Zone adjustment has now been entered.
    - Warn-away Zone can now be adjusted.
5. Adjust Warn-away Zone

NOTE: There are 16 distinct pitch settings, if the upper or lower limit of the 16 settings is reached the siren will emit 2 chirps at the default pitch.

    - Press of the remote control to increase sensitivity. The siren chirps will increase in pitch.
    - Press of the remote control to decrease sensitivity. The siren chirps will decrease in pitch.
    - The sensor Warn-away zone can be tested at any time during adjustment and will generate 1 siren chirp each time the zone is activated.
6. Press of the remote control to return to Primary zone adjustment and lock in Warn Away zone setting.
    - Siren chirps 2 times
    - Primary zone can now be re-adjusted as described in step 3.
    - Or press again to lock in primary zone setting and exit programming mode.
    - The siren will chirp 3 times when sensor adjustment mode has been exited.

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- **Auto-Scroll for adjusting sensitivity** - press and hold or to increase or decrease sensitivity setting several levels rapidly.

glossary of terms

Control Unit: The "brain" of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system's functions.

Input: A physical connection to the system. An input can be provided by a sensor, pinswitch or through an existing system in the vehicle, such as ignition or courtesy lights.

LED: Blue light mounted somewhere in the vehicle. It is used to indicate the status of your system. It is also used to report triggers and faults in the system or sensors.

PlainView 2 Valet Switch: A small two-button switch mounted somewhere inside the vehicle. It is used to override the alarm when a transmitter is lost or damaged, or to enter or exit Valet mode.

Siren: Noise generating device usually installed in the engine compartment of the vehicle. It is responsible for generating the "chirps" you hear, as well as the six tones you hear while the alarm is triggered.

Transmitter: Hand-held transmitter which operates the various functions of your system.

Trigger or Triggered Sequence: This is what happens when the alarm goes off or trips. The triggered response of your system consists of the siren sounding and parking light flashing for the programmed duration.

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UltraSecure Immobilizer: A feature on the module which prevents the vehicle's engine from operating whenever the system is armed. The vehicle is never prevented from running when the system is disarmed, in Valet mode, or loss of power.

Warning Zone Response: Lighter impacts or movement close to the vehicle will generate the Warning Zone response. It consists of a warning siren blast or beep.

Zone: A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Two or more inputs often share the same zone.

security & convenience expansions

Here we have listed only some of the many expansion options available. Please contact your dealer for a complete list of all the options available to you.

Backup Battery: The 520T keeps the system armed, triggers the alarm and keeps the immobilization circuits active if main battery power is disconnected.

Power Trunk Release: The button can operate a factory power release for the vehicle's trunk or hatch. (An optional relay may be required.) If the factory release is not power activated, the Directed®'s 522T trunk release solenoid can often be added.

Power Window Control: Automatic power window control is provided with the SmartWindows system.

Remote Start System: For the ultimate in convenience, the IntelliStart remote start system can start your vehicle, monitor engine functions, and power your climate control system with a push of a button! Over-rev protection, open-hood lockout, brake pedal shutoff, and automatic timer shutoff are all included.

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health check

Directed Electronics recommends you return to your installing Clifford dealer to have your system checked for correct operation. The first check is due one year after the installation date and at yearly intervals thereafter.

> ***note:*** *There may be a small charge incurred for this service.*

DEALER STAMP
1 YEAR CHECK

*Signed*_____ *Dated*_____

DEALER STAMP
2 YEAR CHECK

*Signed*_____ *Dated*_____

DEALER STAMP
3 YEAR CHECK

*Signed*_____ *Dated*_____

DEALER STAMP
4 YEAR CHECK

*Signed*_____ *Dated*_____

DEALER STAMP
5 YEAR CHECK

*Signed*_____ *Dated*_____

DEALER STAMP
6 YEAR CHECK

*Signed*_____ *Dated*_____

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The company behind this system is Directed Electronics, Inc.

Since its inception, Directed® has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology, Directed® is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

E&OE, specification is subject to change without notice. Some vehicles require optional parts/wiring and a few are incompatible with some features.

ISO 9001

DEI is an ISO 9001 registered company.

Directed® is committed to delivering world-class quality products and services that excite and delight our customers.

driven to excel

Directed®

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